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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,358	03/04/2002	David Tumey	VAC.702.US	3855
60402 7590 04/26/2007 KINETIC CONCEPTS, INC. ATTN: LEGAL DEPARTMENT INTELLECTUAL PROPERTY			EXAMINER	
			HAND, MELANIE JO	
P.O. BOX 659508 SAN ANTONIO, TX 78265		ART UNIT	PAPER NUMBER	
•			3761	
		,		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY	/ MODE
3 MO	NTHS	04/26/2007	PAP	ER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/090,358	TUMEY, DAVID
Office Action Summary	Examiner	Art Unit
	Melanie J. Hand	3761
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING C  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become A	ICATION. Treply be timely filed INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 02 A	April 2007.	
	is action is non-final.	
3) Since this application is in condition for allowed closed in accordance with the practice under	ance except for formal ma	·
Disposition of Claims		
4) ☑ Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin	er.	
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to	by the Examiner.
Applicant may not request that any objection to the	e drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•	<u> </u>
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received.  Its have been received in a cority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s)		
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) o(s)/Mail Date
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date		Informal Patent Application

#### DETAILED ACTION

# Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

## Response to Arguments

Applicant's arguments, see Remarks, filed April 2, 2007, with respect to the rejection(s) of claim(s) 1 under 35 U.S.C. 102 and claims 2-10 under 35 U.S.C. 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of a different interpretation of the previously applied prior art reference of Svedman.

### Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441).

With respect to Claim 1: Svedman teaches a device comprising screen means 11 for placement within a wound bed, sealing means 10 adhered over the screen means and thus also over the wound bed. Conduit 12 fluidly connects said screen means 11 to a vacuum source. A sensing device 16 sensing temperature is placed in the conduit 12 (i.e. between the screen means and vacuum source) and connected to the regulator member 15 of supply conduit 12 which

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connects said screen means and sensing device 16 with the vacuum source. (Col. 3, lines 39-42)

Svedman does not teach that said sensing device is a fluid compositional sensing device. However, a temperature increase, for example, signals the presence of bacterial infection, which is a change in composition. It would be obvious to one of ordinary skill in the art to modify the device of Svedman so as to include a fluid compositional sensing device in place of said temperature sensor with a reasonable expectation of success so as to provide a means for sensing an unfiltered wound fluid composition.

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of Overton et al ('846).

With respect to Claim 2: Svedman does not teach that sensing device 16 is comprised of a gas chromatograph. Overton teaches a portable gas chromatograph comprising a photoionization detector (col. 12, lines 23-26). Overton teaches that gas chromatographs are commonly used in the art to rapidly identify the contents of gaseous or liquid samples. Thus since the sensor of Svedman and the gas chromatograph taught by Overton seek to solve a similar problem in the art of sensing fluid compositional characteristics, it would be obvious to one with ordinary skill in the art at the time the invention was made to substitute the sensing device taught by Svedman with a gas chromatograph as taught by Overton in order to rapidly detect microorganisms/infection in the drainage fluids.

With respect to Claim 3: Svedman does not teach a gas chromatograph in optical proximity to a photodiode. A photodiode is a type of photodetector, and since Overton teaches that a detector

is a main, known component of a gas chromatograph, and Examiner has stated that it would be obvious to one of ordinary skill in the art to employ a gas chromatograph as a fluid compositional sensing device, it would thus also be obvious to one of ordinary skill in the art to modify the sensor of the combined teaching of Svedman and Overton by employing a photodiode as a viable detector element for the chromatograph.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of Lewis et al ('440).

With respect to Claim 4: Svedman does not teach that the sensing device 16 comprises a sensor array. Lewis teaches sensor arrays that facilitate detecting more than one condition of, and/or analyte in a fluid, thus facilitating the treatment of a patient or wound site for microorganisms causing infection. Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to substitute the sensor taught by Svedman with the sensor array taught by Lewis so as to detect microorganisms causing infection at a wound site in the drainage fluids.

Claims 5, 6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of Henley et al ('109).

With respect to Claim 5: Svedman teaches a fluid removal connection 13 but does not explicitly teach that the connection 13 is to a collection canister. Henley teaches a wound treatment apparatus with a bandage assembly that includes a drainage bandage 20, a vacuum source fluidically communicating with the drainage bandage 20 via flexible tube 24, a sensing device

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172 or 174 and a collection canister (164 or 166). Henley teaches that the inclusion of the canisters contributes to the ability to operate the device continuously. ('109, Col. 13, lines 8-14) Thus it would be obvious to one of ordinary skill in the art to modify the device of Svedman by attaching a collection canister to the second end of said fluid connection as taught by Henley to facilitate continuous operation of the device.

With respect to Claim 6: Svedman teaches a device comprising screen means 11 for placement within a wound bed, sealing means 10 adhered over the screen means and thus also over the wound bed. Conduit 12 fluidly connects said screen means 11 to a vacuum source. A sensing device 16 sensing temperature is placed in the conduit 12 (i.e. between the screen means and vacuum source) and connected to the regulator member 15 of supply conduit 12 which connects said screen means and sensing device 16 with the vacuum source. (Col. 3, lines 39-42)

Svedman does not teach that said sensing device is a fluid compositional sensing device. However, a temperature increase, for example, signals the presence of bacterial infection, which is a change in composition. It would be obvious to one of ordinary skill in the art to modify the device of Svedman so as to include a fluid compositional sensing device in place of said temperature sensor with a reasonable expectation of success so as to provide a means for sensing an unfiltered wound fluid composition.

Svedman teaches a fluid removal connection 13 but does not explicitly teach that the connection 13 is to a collection canister. Henley teaches a wound treatment apparatus with a bandage assembly that includes a drainage bandage 20, a vacuum source fluidically communicating with the drainage bandage 20 via flexible tube 24, a sensing device 172 or 174 and a collection canister (164 or 166). Henley teaches that the inclusion of the canisters

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contributes to the ability to operate the device continuously. ('109, Col. 13, lines 8-14) Thus it would be obvious to one of ordinary skill in the art to modify the device of Svedman by attaching a collection canister to the second end of said fluid connection as taught by Henley to facilitate continuous operation of the device.

With respect to Claim 10: Conduit 12 taught by Svedman fluidly connects said screen means

11 to a vacuum source.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of Henley et al ('109), as applied to claims 5, 6 and 10 above, and in further view of Scherson et al. ('570).

With respect to Claim 7: The combined teaching of Svedman and Henley does not teach that the sensor is embedded in the screen means 11. Scherson teaches an oxygen- producing bandage with several layers, wherein one of the layers comprise a sensor (col. 4, lines 31-39). Scherson teaches that the sensor can regulate the flow of oxygen to the bandage. It would be obvious to one with ordinary skill in the art to embed the sensor taught by the combined teaching of Svedman and Henley in the screen means as taught by Scherson to effectively monitor the drainage fluid composition or parameters to detect the onset of infection at the wound site.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of Henley et al ('109), as applied to claims 5, 6 and 10 above, and further in view of Fleischmann ('767).

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With respect to Claim 8: Svedman teaches a sensing device and a sealing means but does not teach that said sensing device is disposed on the sealing means. Fleischmann teaches a wound treatment apparatus that comprises a sealing means 14 and a sensing device 38 that is disposed on the sealing means 14 and is in contact with a screen means 12 ('767, Fig. 1 and Col. 4, lines 62-64). Therefore, it is obvious to one with ordinary skill in the art at the time the invention was made to modify the sensor and sealing means taught by the combined teaching of Svedman and Henley such that the sensor is disposed on the sealing means to detect infections in the atmosphere near the wound area as taught by Fleischmann.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svedman ('441) in view of Henley et al ('109), as applied to claims 5, 6 and 10 above, and further in view of Parker et at. ('391).

With respect to Claim 9: Henley discloses a canister and a sensing device outside of the canister but does not disclose a sensing device for sensing infections located in the canister. Parker teaches a fluid monitoring apparatus comprising a canister 22 with a sensing probe 64 mounted inside the canister (col.5, lines 16-21) to monitor parameters of the fluid collected. This provides additional and more accurate means for detecting infection at the wound site as taught by Parker, therefore it would be obvious to one with ordinary skill in the art to provide the invention of the combined teaching of Svedman and Henley with the sensing probe of Parker inside of the canister taught by Henley.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Melanie J. Hand whose telephone number is 571-272-6464. The

examiner can normally be reached on Mon-Thurs 8:00-5:30, alternate Fridays 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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Melanie J Hand Examiner

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April 19, 2007

TATYANA ZALUKAEVA